



Form PTO-1449 (Modified)		U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE		APPLICATION NO. 92-1300D		SERIAL NO. 08/242,113	
Information Disclosure Statement by Applicant (Use several sheets if necessary) (37 cfr 1.98(b))				APPLICANT JOHN SIEMON ET AL			
				FILING DATE 5/13/94		GROUP 3202	
U.S. PATENT DOCUMENTS							
EXAMINER INITIAL		PATENT NUMBER	ISSUE DATE	PATENTEE	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
AD		4,636,918	1/13/87	Jodoin			
		4,643,509	2/17/87	Hollyday et al			
		4,657,323	4/14/87	Erbe			
		4,668,041	5/26/87	Lakowski et al			
		4,676,576	6/30/87	Feldberg et al			
		4,678,251	7/7/87	Willard			
		4,682,129	7/21/87	Bakermans et al			
		4,690,479	9/1/87	Hollyday et al			
		4,695,115	9/22/87	Talend			
		4,726,776	2/23/88	Billman et al			
AD		4,726,790	2/23/88	Hadjis			
FOREIGN PATENT OR PUBLISHED FOREIGN PATENT APPLICATION							
		DOCUMENT NUMBER	PUBLICATION DATE*	COUNTRY OR PATENT OFFICE	CLASS	SUBCLASS	TRANSLATION YES NO
		1,449,209	9/15/76	UK			
		69,39619	8/20/71	France			
		2,060,266A	4/29/81	UK			
		0 278 485	10/2/68	Europe			
		1 382 013	1/29/75	UK			
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.**)							
		IBM TO MARKET AT&T CABLING SYSTEM - Roberta Paul and Roni DeCesare, September 30, Phoenix, AZ					
		AT&T News Release - Roni C. DeCesare and Wilma Mathews End-to-End Category 5 Connectivity for Data Networking Applications Available Now From AT&T					
		AT&T SYSTIMAX Structured Cabling Systems					
		Northern Telecom - The Plus Product Line					
		Northern Telecom - BIX Patch Panel Plus					
		Northern Telecom - BIX IDC Plus					
EXAMINER	M. Abrams			DATE CONSIDERED 3-14-95			

*EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

(Form PTO-1449 [6-4])

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** "The place or publication refers to the name of the journal, magazine or other publication in which the article was published...." Notice of January 9, 1992, 1135 O.G. 13 to 25, at 20.

Foreign pats and publications on page 1-13
all cited in PTO-1449 received 4-4-95.

Form PTO-1449 (Modified)		U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE		ATTY DOCKET NO. 92-300D		SERIAL NO. 08/242,113	
Information Disclosure Statement by Applicant (Use several sheets if necessary) (37 cfr 1.98(b))				APPLICANT JOHN SIEMON ET AL			
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U.S. PATENT DOCUMENTS							
EXAMINER INITIAL	PATENT NUMBER	ISSUE DATE	PATENTEE	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE	
nk	4,781,624	11/1/88	Shepherd				
	4,791,391	12/13/88	Linnell et al				
	4,815,127	3/21/89	Sato et al				
	4,820,192	4/11/89	Denkmann et al				
	4,824,383	4/25/89	Lemke				
	4,853,659	8/1/89	Kling				
	4,865,564	9/12/89	Denkmann et al				
	4,869,682	9/26/89	Volk et al				
	4,871,316	10/31/89	Herrell et al				
	4,875,205	10/17/89	Hugng				
nk	4,875,875	10/24/89	Archer et al				

FOREIGN PATENT OR PUBLISHED FOREIGN PATENT APPLICATION							
DOCUMENT NUMBER	PUBLICATION DATE*	COUNTRY OR PATENT OFFICE	CLASS	SUBCLASS	TRANSLATION		
					YES	NO	

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.**)			
nk		Northern Telecom - BIX Rack Mounted Panel Plus	
		Northern Telecom - BDN Plus Cable	
		Northern Telecom - Modular Cords Plus	
		Northern Telecom - BIX DVO Plus	
nk		AMP EIA Category 5 Wiring System	

EXAMINER M. Abrams	DATE CONSIDERED 3-14-95
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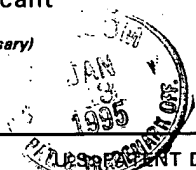
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PATENT DOCUMENTS							
EXAMINER INITIAL	PATENT NUMBER	ISSUE DATE	PATENTEE	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE	
WA	4,878,847	11/89	Rutledge				
	4,878,848	11/7/89	Ingalsbe				
	4,912,552	3/27/90	Allison, III et al.				
	4,930,200	6/5/90	Brush, Jr. et al				
	4,931,754	6/5/90	Moussie				
	4,932,892	6/12/90	Hatch				
	4,939,624	7/3/90	August et al				
	4,953,206	8/28/90	Friesen et al				
	4,975,078	12/4/90	Stroede et al				
	5,045,968	9/10/91	Baur et al				
WA	5,061,209	10/29/91	Bolick, Jr. et al				

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DOCUMENT NUMBER	PUBLICATION DATE*	COUNTRY OR PATENT OFFICE	CLASS	SUBCLASS	TRANSLATION		
					YES	NO	

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.**)		
WA		AT & T Network Sys., 1100 Modular Jack Panel - 1991
		ORTRONICS, A Striking Breakthrough In Category 5 Modular Patching!
		PANDUIT, Pan-Net Category 5 Network Wiring System
		SUPERIOR MODULAR PRODUCTS, INC., 100 Megabit Station Outlets
WA		FULLY CATEGORY 5 COMPLAINT, The Future is Now: Mod-Tap High Performance - Jan. 1993

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EXAMINER INITIAL	PATENT NUMBER	ISSUE DATE	PATENTEE	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
MA	5,069,641	12/3/91	Sakamoto et al			
	5,074,801	12/24/91	Siemon			
	5,082,457	1/21/92	Wallscheidt et al			
	5,088,939	2/18/92	Shepherd			
	5,091,826	2/92	Arnett et al			
	5,093,879	3/3/92	Bregman et al			
	5,139,442	8/18/92	Sakamoto et al			
	5,145,401	9/8/82	Archer			
	5,145,413	9/8/92	Okamoto et al			
	5,149,277	9/22/92	LeMaster			
MA	5,153,988	10/13/92	Mattis et al			

FOREIGN PATENT OR PUBLISHED FOREIGN PATENT APPLICATION							
DOCUMENT NUMBER	PUBLICATION DATE*	COUNTRY OR PATENT OFFICE	CLASS	SUBCLASS	TRANSLATION		
					YES	NO	

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc. **)		
MA		Porta Systems Corp., If there were a category 6, The Effects of Multiple Connectors - February 1993
		KRONE Literature, Solutions for Every Application
		NORTHERN TELECOM, BIX IDC Distribution Connector, 25-pair QCBIX1A Type - July 1992
		NORTHERN TELECOM, BIX Path Panel Wall Mount Cross-Connect System - July 1992
		NORTHERN TELECOM, BIX DVO Data/Voice Outlet QNE 3 Type; July 1992
		NORTHERN TELECOM, BIX Modular Path Panel Rack Mount, QPBIX Type, July 1992
EXAMINER	DATE CONSIDERED	
MA	3-14-95	

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U.S. PATENT DOCUMENTS							
EXAMINER INITIAL	PATENT NUMBER	ISSUE DATE	PATENTEE	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE	
NA	5,178,554	1/12/93	Siemon et al				
	5,186,647	2/16/93	Denkmann et al				
	5,192,230	3/9/93	Gabany et al				
	4,767,338	8/30/88	Dennis et al				
NA	3,892,925	7/1/75	Fisk et al				

FOREIGN PATENT OR PUBLISHED FOREIGN PATENT APPLICATION							
EXAMINER INITIAL	DOCUMENT NUMBER	PUBLICATION DATE*	COUNTRY OR PATENT OFFICE	CLASS	SUBCLASS	TRANSLATION	
						YES	NO
NA	0 278 484	10/27/68	Europe				

OTHER DOCUMENTS* (Including Author, Title, Date, Pertinent Pages, Etc.**)			
EXAMINER INITIAL	DATE	TITLE	PAGES
NA		"Principles of Electricity Applied to Telephone and Telegraph Work" (Long Lines Department, American Telephone and Telegraph Company, 1961) p. 334 - 344	cited in later PTO 1449

EXAMINER N. Abrams	DATE CONSIDERED 3-14-95
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U.S. PATENT DOCUMENTS							
EXAMINER INITIAL	PATENT NUMBER	ISSUE DATE	PATENTEE	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE	
W	3,701,838	10/31/72	Olney, Jr.				
	3,744,009	7/3/73	Teagno et al				
	3,891,815	6/24/75	Hiele				
	4,027,937	6/7/77	Norden				
	4,049,227	9/20/77	Georgopoulos				
	4,053,719	10/11/77	Debortoli et al				
	4,144,509	3/13/79	Boutros				
	4,241,974	12/30/80	Hardesty				
	4,367,908	1/11/83	Johnston				
	4,413,469	11/8/83	Paquin				
W	4,489,419	12/18/84	Wang				

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					YES	NO	

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Information Disclosure Statement by Applicant <small>(Use several sheets if necessary)</small>				APPLICANT JOHN SIEMON ET AL			
(37 cfr 1.98(b))				FILING DATE MAY 13, 1994		GROUP 3202	

U.S. PATENT DOCUMENTS							
EXAMINER INITIAL	PATENT NUMBER	ISSUE DATE	PATENTEE	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE	
MA	333,656	3/2/93	Blumel et al				
	969,409	9/6/10	Russell				
	1,278,339	9/10/18	Hastings et al				
	2,244,937	11/27/39	Brainard				
	3,343,041	4/8/66	Pistey et al				
	3,496,555	8/27/65	Jones et al				
	3,579,046	5/18/71	Edwards				
	3,591,834	7/6/71	Kollas				
	3,634,806	1/11/72	Ferguson				
	3,641,472	9/14/70	Phillips, Jr.				
MA	3,662,117	5/9/72	Bhatt et al				

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EXAMINER INITIAL	DOCUMENT NUMBER	PUBLICATION DATE	COUNTRY OR PATENT OFFICE	CLASS	SUBCLASS	TRANSLATION	
						YES	NO
MA	WO 92/04798	3/19/92	PCT				

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U.S. PATENT DOCUMENTS

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MA	179,996	4/2/57	Wells et al			
	179,997	4/2/57	Wells et al			
	212,330	10/1/68	Teagno et al			
	233,729	11/26/74	De Forrest			
	240,631	7/20/76	Lang et al			
	248,096	6/6/78	Stupay			
	269,426	7/21/83	Pyle			
	276,605	12/4/84	Neuwirth			
	298,826	12/6/88	Nakajo et al			
	300,739	4/18/89	Kikuta			
MA	306,716	3/20/90	Shimirak			

FOREIGN PATENT OR PUBLISHED FOREIGN PATENT APPLICATION

EXAMINER INITIAL	DOCUMENT NUMBER	PUBLICATION DATE*	COUNTRY OR PATENT OFFICE	CLASS	SUBCLASS	TRANSLATION	
						YES	NO
MA	678,914	6/29/39	Germany				
	279,405-A	2/88	Europe				
	0 567 016 A2	10/93	Europe				
	1 432 793	4/22/76	UK				
MA	DE 3605-063-C	10/87	Germany				

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc. **)

MA	U.S. Army Document - 1956
	Post Master General Department - Australia 1950 Long-Line Equipment
	UK - Line & customer Apparatus 1
	Post Master General Department - Australia 1951 Long-Line Equipment
	Siemens Publication from UK
MA	Ortronics 1993 - 1994 Product Guide Issue

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MA	4,600,256	7/15/86	Anttila				
	4,669,802	6/2/87	Schaffer				
	4,689,441	8/25/87	Dick et al				
	4,701,135	10/20/87	Volk et al				
	4,714,440	12/22/87	Hutchins				
	4,747,020	5/24/88	Brickley et al				
	4,756,695	7/12/88	Lane et al				
	4,799,901	1/24/89	Pirc				
	4,813,071	3/14/89	De Luca				
	4,831,497	5/16/89	Webster et al				
MA	4,850,887	7/25/89	Sugawara				

FOREIGN PATENT OR PUBLISHED FOREIGN PATENT APPLICATION							
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U.S. PATENT DOCUMENTS							
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WA	4,874,904	10/17/89	DeSanti				
	4,883,432	11/28/89	Reed				
	4,905,275	2/27/90	Meyerhoefer et al				
	4,909,757	3/20/90	Reed				
	4,912,452	3/27/90	Koleyni				
	4,929,196	5/29/90	Ponn et al				
	4,950,840	8/21/90	Zetena				
	4,958,262	9/18/90	Wilkie, Jr.				
	4,992,061	2/12/91	Brush, Jr. et al				
	5,029,270	7/2/91	Shiraishi et al				
WA	5,032,991	7/16/91	Davidson et al				

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WA	5,039,824	8/13/91	Takashima et al				
	5,041,018	8/20/91	Arnett				
	5,068,631	11/26/91	Vince				
	5,086,271	2/4/92	Haill et al				
	5,125,852	6/30/92	Archer				
	5,205,762	4/27/93	Carney				
	5,244,417	9/14/93	Perretta et al				
WA	5,310,363	5/10/94	Brownell et al				

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DOCUMENT NUMBER	PUBLICATION DATE*	COUNTRY OR PATENT OFFICE	CLASS	SUBCLASS	TRANSLATION		
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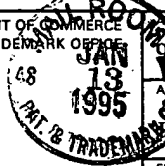
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EXAMINER INITIAL		PATENT NUMBER	ISSUE DATE	PATENTEE	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE	
WA		5,299,956	4/5/94	BROWNELL ET AL				
		4,641,900	2/10/87	JAPNGIE				
		3,761,842	9/25/73	GANDRUD				
		4,418,239	11/29/83	LARSON ET AL				
		3,757,028	9/4/73	SCHLESSEL				
		2,667,543	4/9/51	SMITH ET AL				
		5,269,708	12/14/93	DEYOUNG ET AL				
		1,995,454	10/12/33	HUNTER				
		1,799,188	4/7/31	WEAVER				
		1,922,138	12/17/31	NYQUIST				
WA		1,627,206	6/26/26	SETZEPFAND				
FOREIGN PATENT OR PUBLISHED FOREIGN PATENT APPLICATION								
		DOCUMENT NUMBER	PUBLICATION DATE*	COUNTRY OR PATENT OFFICE	CLASS	SUBCLASS	TRANSLATION YES NO	
WA		2089122	6/82	UNITED KINGDOM				
		2-268484	11/90	JAPAN				
		2-91957	3/90	JAPAN				
		2233157A	1/91	UNITED KINGDOM				
WA		B1965C/06	1/80	GERMANY				
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc. **)								
EXAMINER <i>N. Abrams</i>				DATE CONSIDERED <i>3-14-95</i>				
*EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.								

(Form PTO-1449 [6-4])

* Use Publication date indicated on the patent or published application. 37 CFR 1.98(b).

** "The place or publication refers to the name of the journal, magazine or other publication in which the article was published...." Notice of January 9, 1992, 1135 O.G. 13 to 25, at 20.

Form PTO-1449 (Modified)		U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE		ATTY. DOCKET NO. 92-1300D	SERIAL NO. 08/242,113
Information Disclosure Statement by Applicant <small>(Use several sheets if necessary)</small> <small>(37 cfr 1.98(b))</small>				APPLICANT JOHN SIEMON ET AL	
				FILING DATE 5/13/94	GROUP 3202

U.S. PATENT DOCUMENTS							
EXAMINER INITIAL	PATENT NUMBER	ISSUE DATE	PATENTEE	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE	
WA	3,634,806	10/31/69	FERGUSON				
WA	3,496,555	8/27/65	JONES ET AL				
WA	3,591,834	12/22/69	KOLLAS				

FOREIGN PATENT OR PUBLISHED FOREIGN PATENT APPLICATION							
	DOCUMENT NUMBER	PUBLICATION DATE*	COUNTRY OR PATENT OFFICE	CLASS	SUBCLASS	TRANSLATION	
						YES	NO
WA	0292830A	1/29/82	UK				
WA	0134899	5/85	Europe				
WA	1432793	4/76	UK				

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.**)		
WA		IBM Technical Disclosure Bulletin, Vol. 18 No. 3 August 1975, p. 762
		Prediction of Crosstalk Involving Twisted Pairs of Wires - Part 1 A Transmission-Line Model for Twisted-Wire Pairs, 1979 IEEE
		Prediction of Crosstalk Involving Twisted Pairs of Wires- Part II: A Simplified Low-Frequency Prediction Model
		IEEE 1990 International Symposium on Electromagnetic Compatibility Symposium Record
WA		IBM Technical Disclosure Bulletin, Vol. 18, No. 5 October 1975, Page 1430

EXAMINER <i>N. Abrams</i>	DATE CONSIDERED 3-14-95
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*EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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